GOVERNMENT OF INDIA
URBAN DEVELOPMENT AND POVERTY ALLEVATION
LOK SABHA

UNSTARRED QUESTION NO:3566
ANSWERED ON:16.04.2002
JOINTLESS TECHNOLOGY FOR HOUSING PROJECTS
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Will the Minister of URBAN DEVELOPMENT AND POVERTY ALLEVATION be pleased to state:

(a) whether the Delhi Development Authority has planned to introduce jointless cast-in-situ reinforced concrete (RCC)construction for undertaking mass housing projects;

(b) if so, the details thereof;

(c) the details of advantages found in the `jointless technology`;

(d) whether it is cost effective and is comparable with the conventional technologies; and

(e) if so, the details thereof?

Answer

MINISTER OF STATE IN THE MINISTRY OF URBAN DEVELOPMENT & POVERTY ALLEVIATION (SHRI BAN DATTATREYA)

(a): Yes, Sir.

(b): The Delhi Development Authority have reported that based on the jointless technology, construction of 504 Nos. MIG and 360 Nos. LIG flats at Sector 18 (B), Dwarka Phase II has been taken up.

(c): In the jointless technology, the walls and roofs are cast in one operation. Therefore, the structures are monolithic without joints. Following are the advantages of this technology:

(i) These structures are more earthquake resistant.

(ii) The construction period of the project get reduced approximately by 30%.

(iii) The carpet area also increases up to 5%.

(iv) Has better surface finish, regularity of line and level.

(v) Erection and slipping of aluminium form work is rapid.

(vi) These form work are rigid and give excellent surface finish and dimensional accuracy.

(vii) The form work is light.

(viii) It eliminates the need for beam form and corresponding centring.

(ix) The walls and the slabs form a rigid structure.

(x) This form work is erected and dismantled without cranes, using unskilled labour equipped with only hammer.

(xi) This form work is environment friendly and recyclabe.

(d): Yes, Sir.

(e): The cost of construction by this technology is comparable with conventional construction.